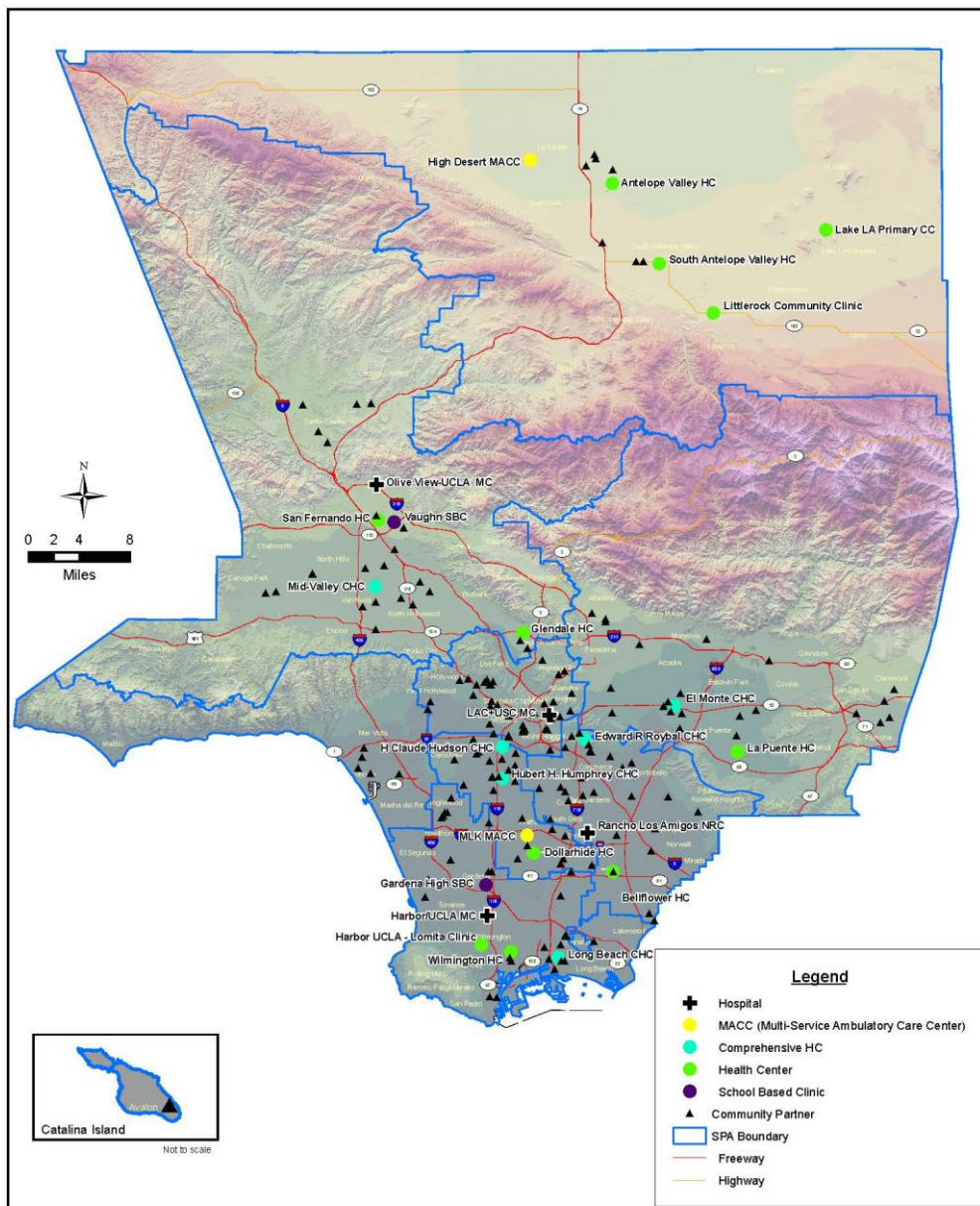
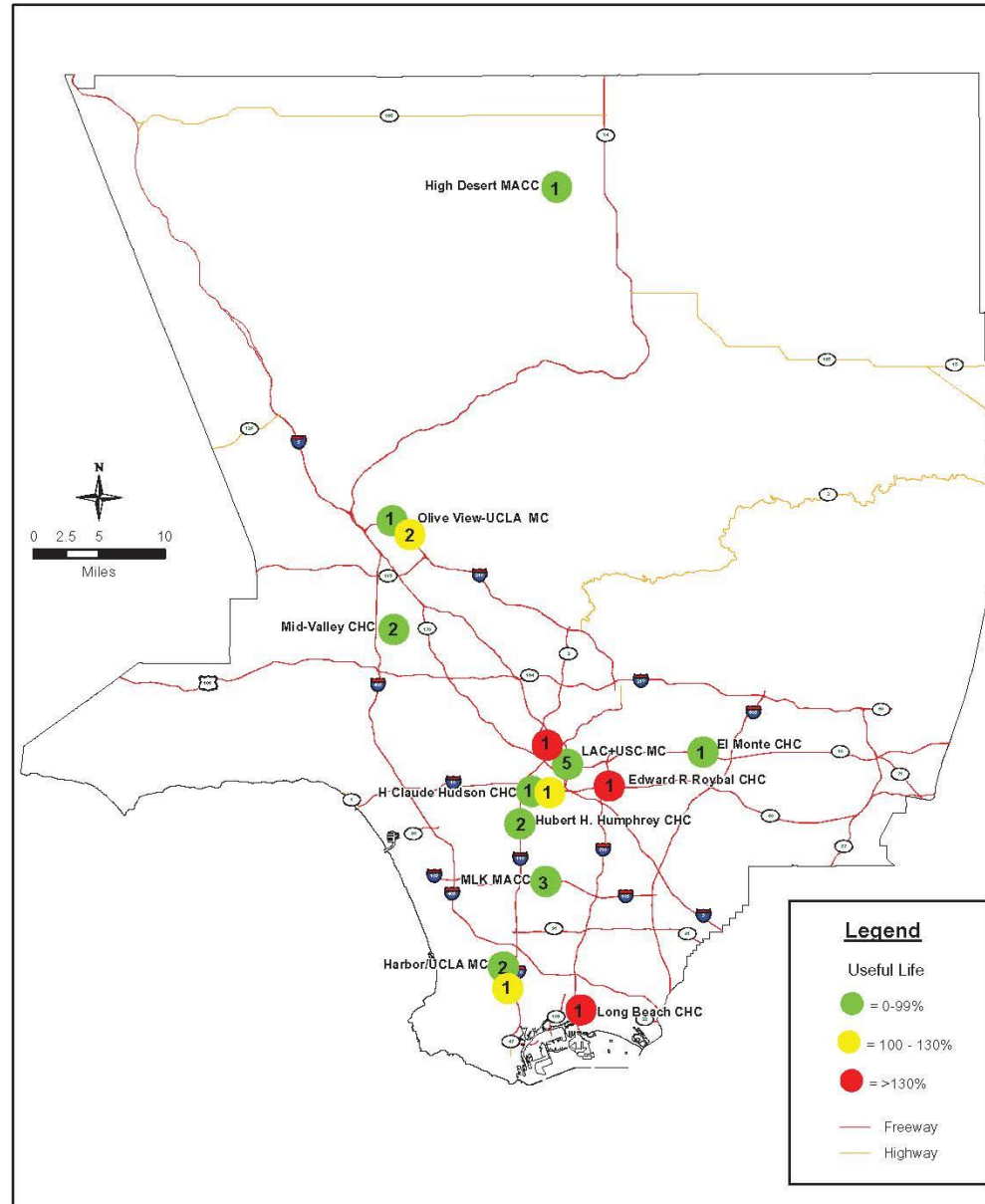


# How GIS is used by DHS?

- General Location (e.g. Supervisorial Districts, SPA)
- Location of DHS and Community Partner sites
- Equipment location and visual support to justify priority replacement
- Incorporate location information for policy decisions (HWLA)
- Determine geographical regions from where DHS patients travel to our facilities
- Determine distance between DHS facilities and patients' residence (e.g. 5 or 10 miles)
- Determine driving distance (e.g. 5 or 10 minutes) between DHS/CP facilities and patients addresses
- DHS maps assist executive team in strategic planning, lobbying efforts, and grant applications. The maps are shared with Congressional, Assembly, and Senate representative who lobby for DHS patients.

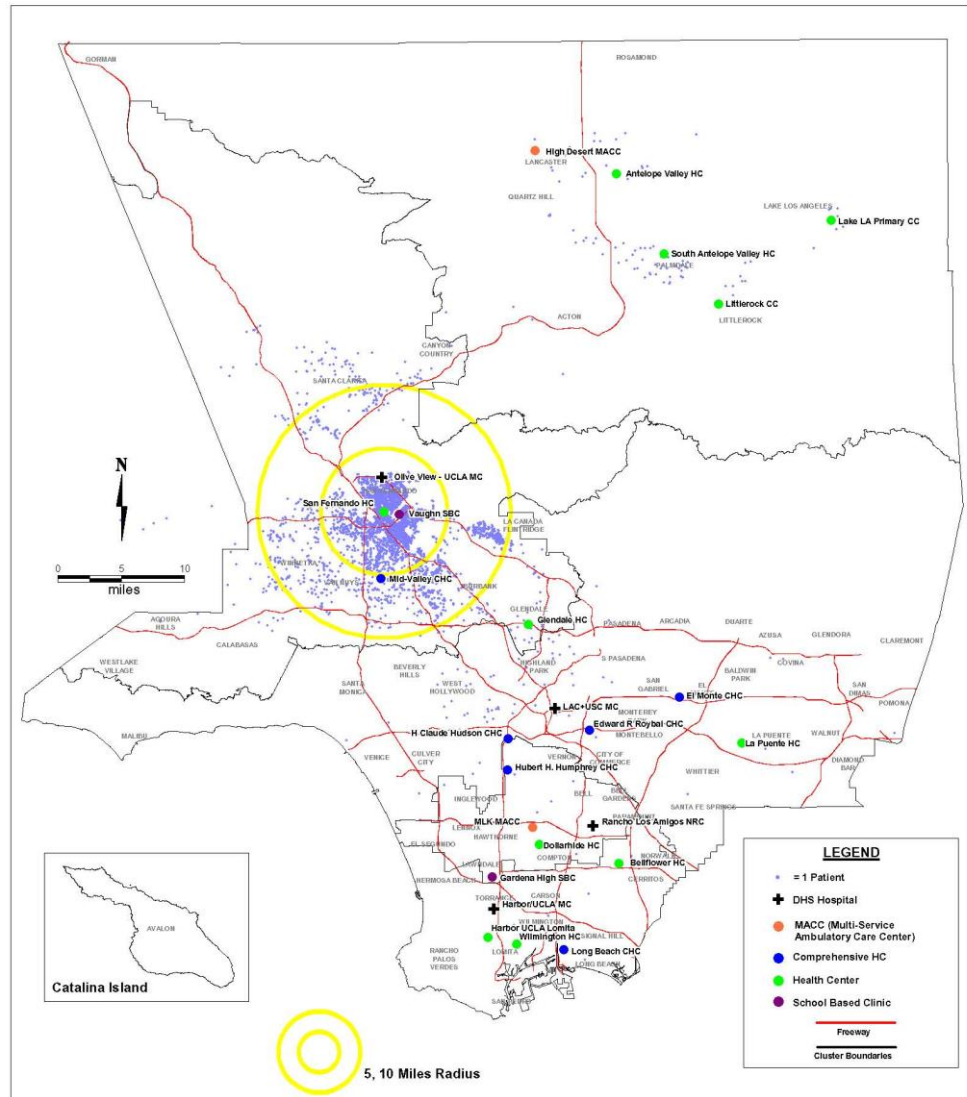


**DRAFT**



# San Fernando HC Patients' Area of Residence

San Fernando Health Center Patients by Area of Residence  
Outpatients (n=7,103)  
FY 07/08

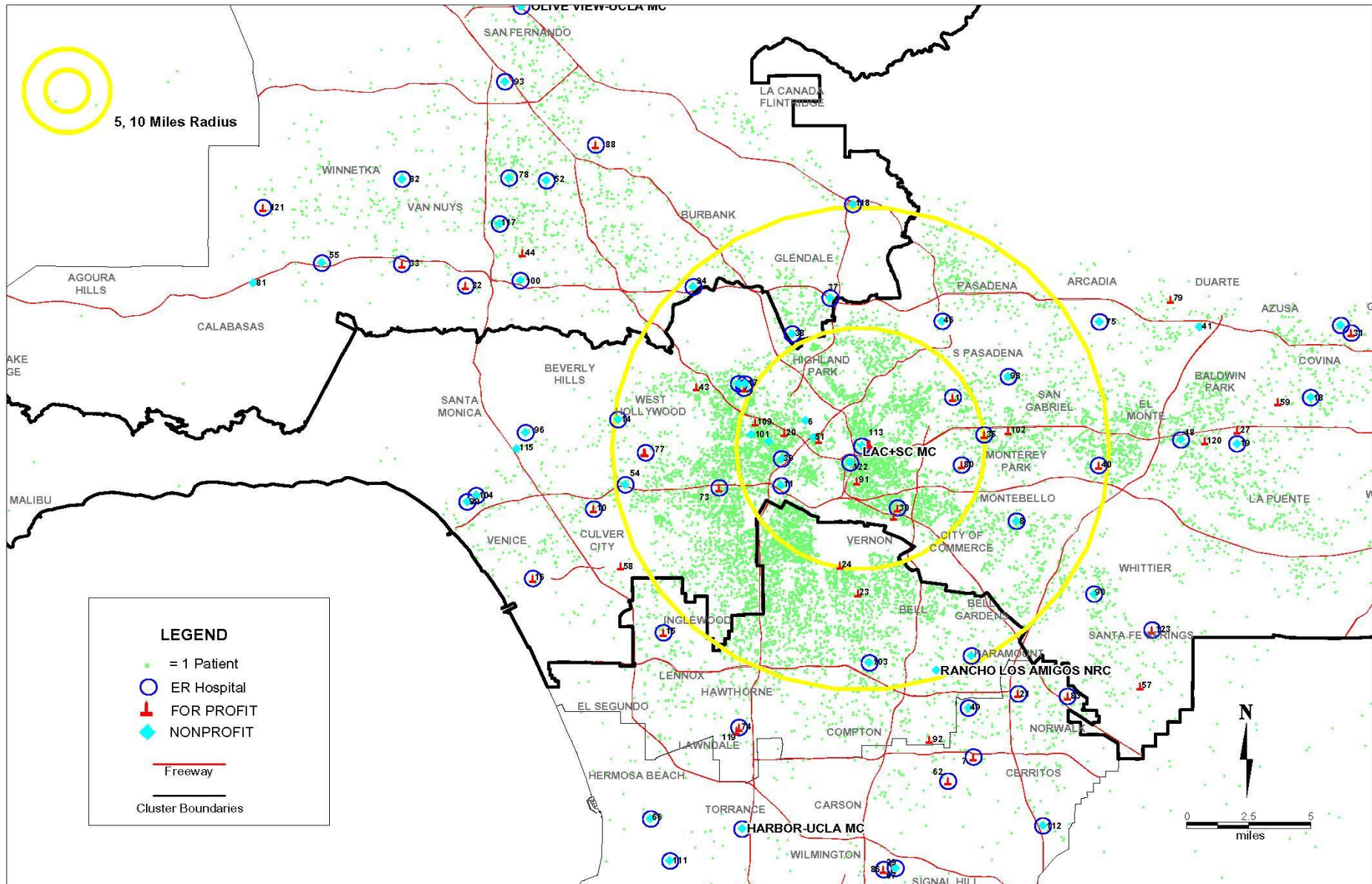




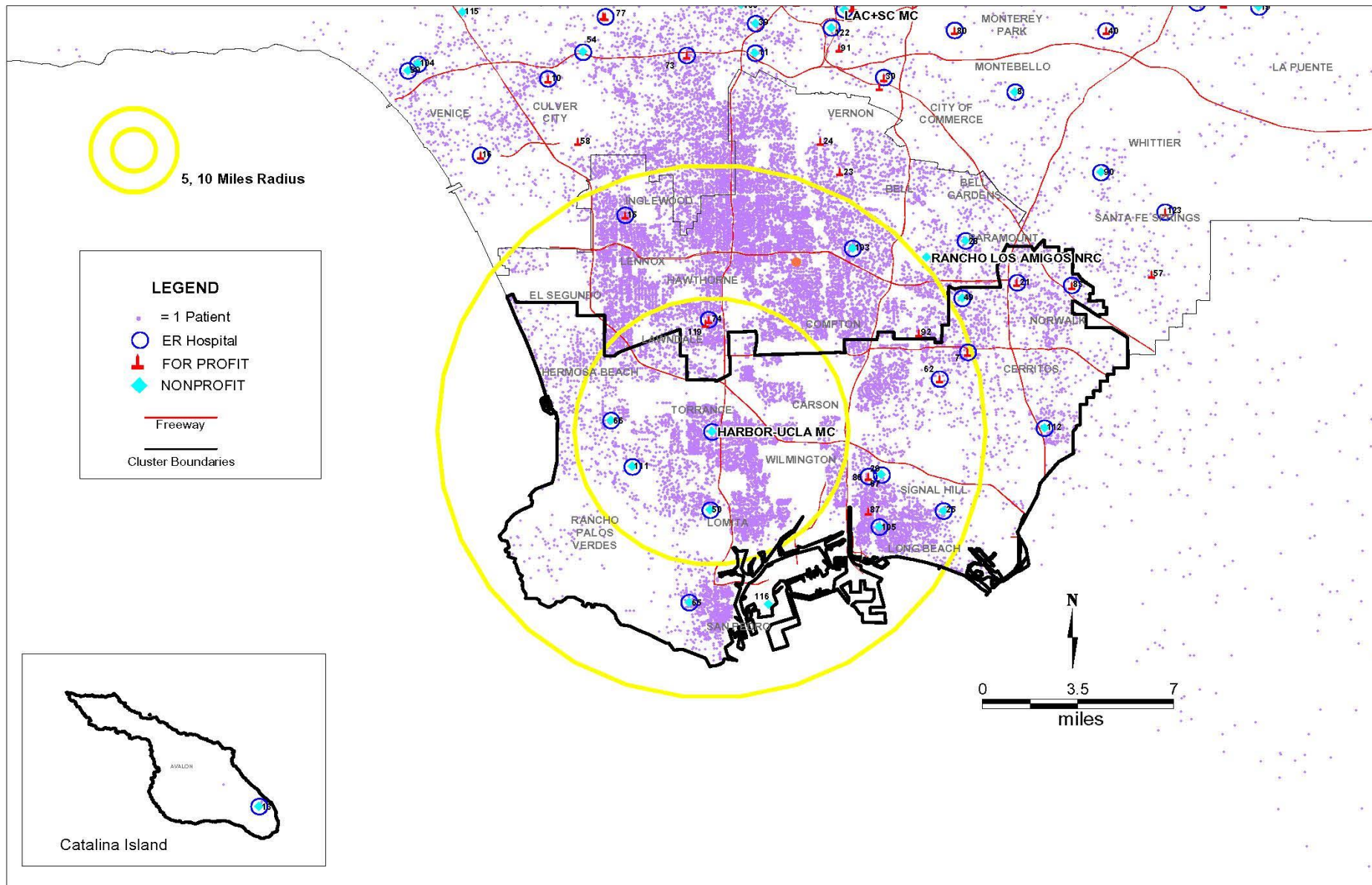
# LAC+USC Medical Center Patients by Area of Residence

## Inpatients (n= 27,183)

### FY 09/10



# Harbor/UCLA Medical Center Patients by Area of Residence Emergency Department Patients (n= 63,267) FY 09/10



# Driving distance for DHS patients to DHS hospitals.

## DHS Hospitals FY 07/08

DHS Facilities	Total Outpatients	Driving Distances							
		5 Minutes	%	5-10 Minutes	%	10-15 Minutes	%	15-20 Minutes	%
Olive View-UCLA MC	48,922	1,682	3%	5,793	12%	7,571	15%	12,600	26%
LAC+USC MC	113,026	6,526	6%	25,680	23%	29,721	26%	18,451	16%
Rancho Los Amigos NRC	9,148	131	1%	708	8%	1,541	17%	2,347	26%
Harbor - UCLA MC	71,831	4,909	7%	12,738	18%	23,797	33%	15,534	22%

# Driving distance for DHS patients to DHS hospitals.

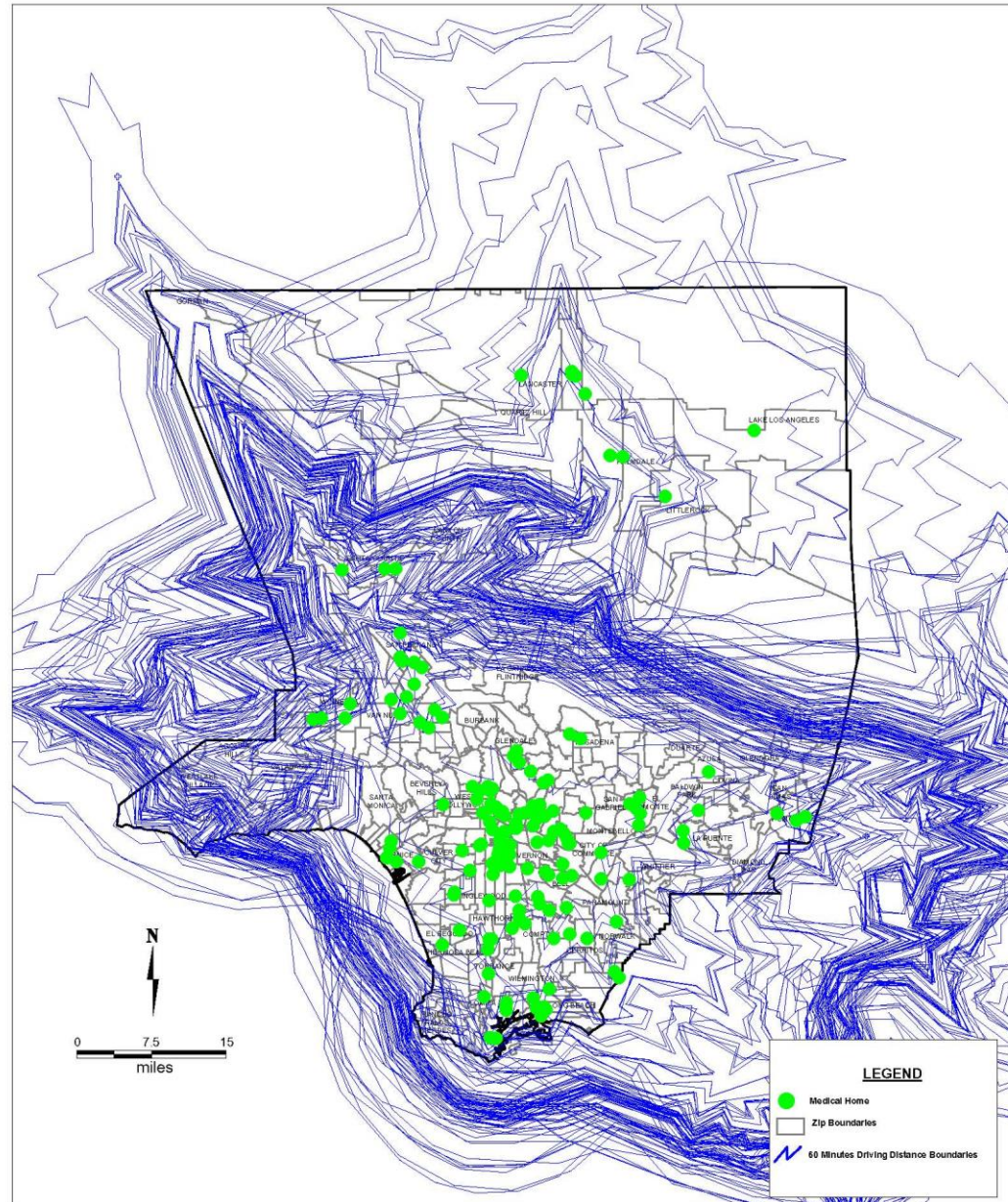
## DHS Hospitals FY 07/08

DHS Facilities	Total Outpatients	Driving Distances							
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Los Angeles County  
Department of Health Service  
LIHP Medical Homes

60 minutes driving  
distance to a  
Medical Home



# DHS Patients by California Assembly Districts

Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Developer Acrobat

Themes Colors Fonts Effects Margins Orientation Size Print Breaks Background Print Titles Page Setup Width: 1 page Height: 1 page Scale: 77% Gridlines View View Print Print Bring Forward Send Backward Selection Pane Align Group Rotate Arrange

G83

DHS PATIENTS DATA FY1213 BY ALL AD\_CD\_SD IN CA .xlsx

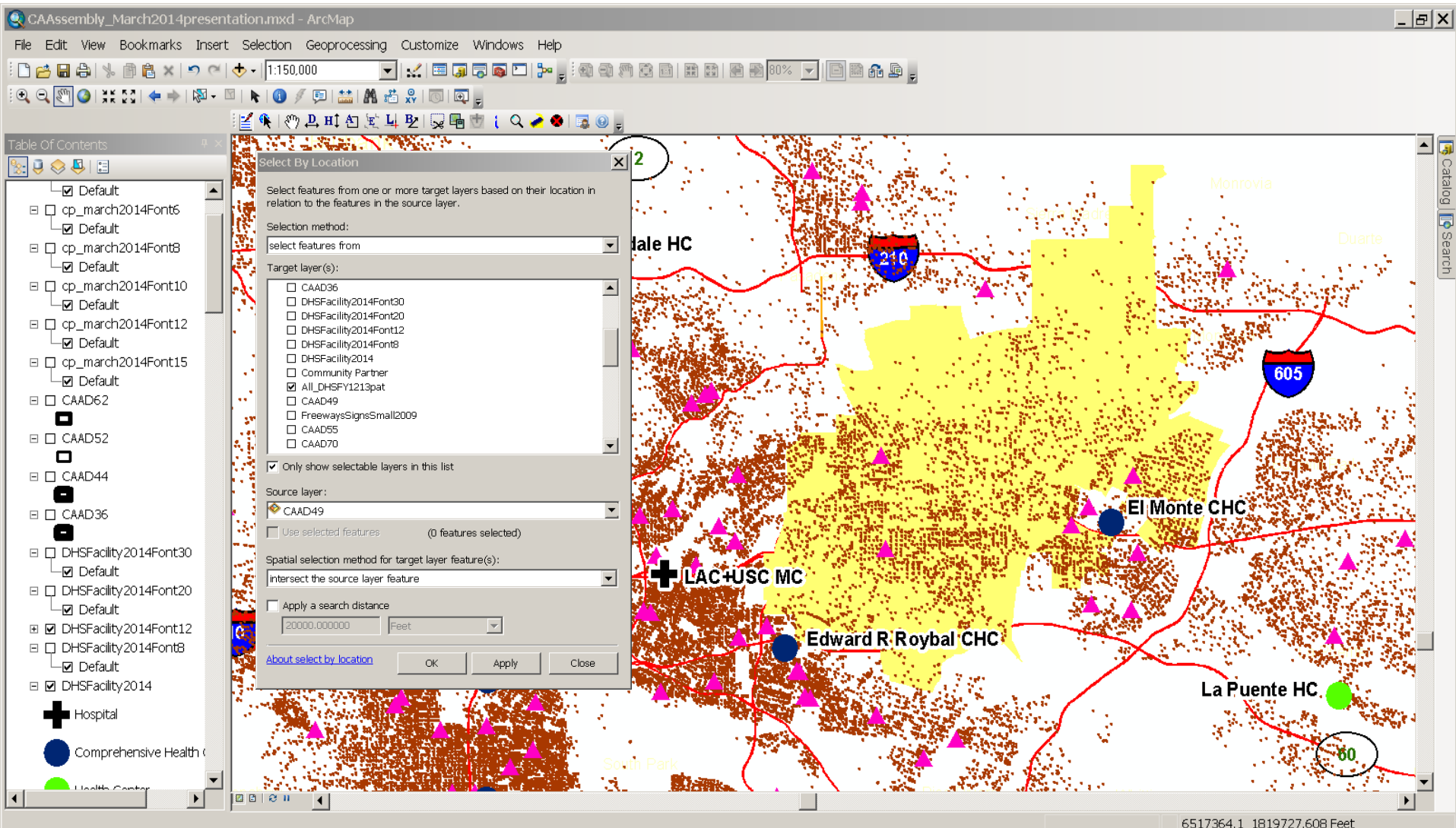
	A	B	C	D	E	F	G	H	I	J	K
1	<b>DHS Patients by California Assembly Districts</b>										
2											
3		<b>PATIENTS</b>		<b>VISITS</b>							
4	<b>ASSEMBLY DISTRICT</b>	<b>DHS</b>	<b>COMMUNITY PARTNER</b>	<b>DHS</b>	<b>COMMUNITY PARTNER</b>						
5	1	17	2	25	-						
27	23	23	-	11	-						
36	32	88	6	209	-						
50	46	17,947	12,777	72,307	45,640						
51	47	373	61	810	158						
52	48	9,048	13,311	41,035	46,157						
53	49	9,151	10,958	39,801	36,644						
54	50	4,675	8,100	18,301	26,448						
55	51	27,102	23,551	105,221	83,785						
61	57	8,866	9,921	38,688	33,244						
82	78	27	3	30	4						
83	79	28	-	41	-						
84	80	36	1	64	-						
85											
86											
87	Source: LAC DHS Enterprise Data Repository FY 2011/2012 data as of 8/28/13										
88											
89											

ASSEMBLY DISTRICT CONGRESSIONAL DISTRICT SENATORIAL DISTRICT Sheet1

Ready 90%

# DHS Patients within a specific CA Assembly District.

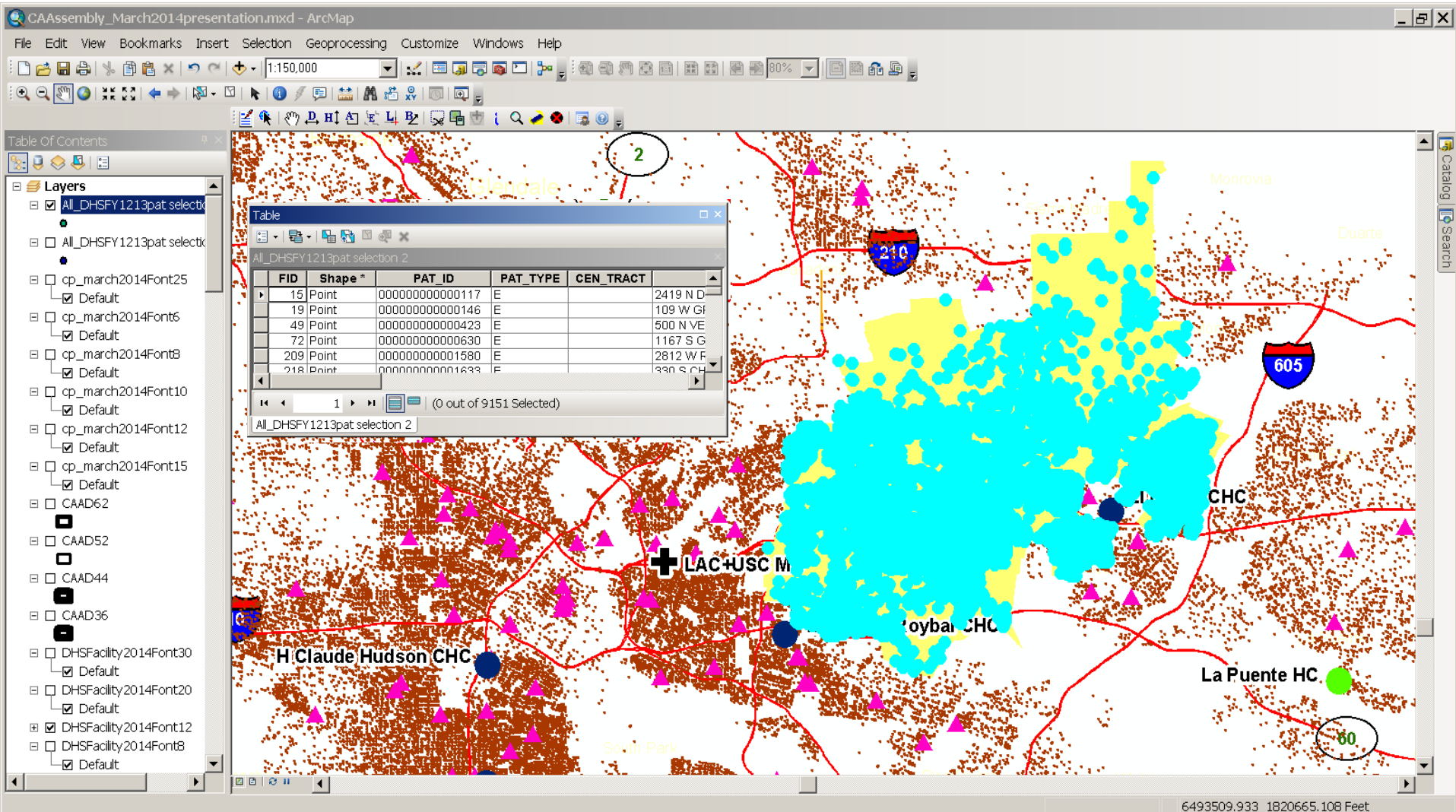
DHS Patients FY 12/13 from AD 49





# DHS Patients within a specific CA Assembly District.

DHS Patients FY 12/13 from AD 49  
Patients (n=9,151) Visits (n=?)

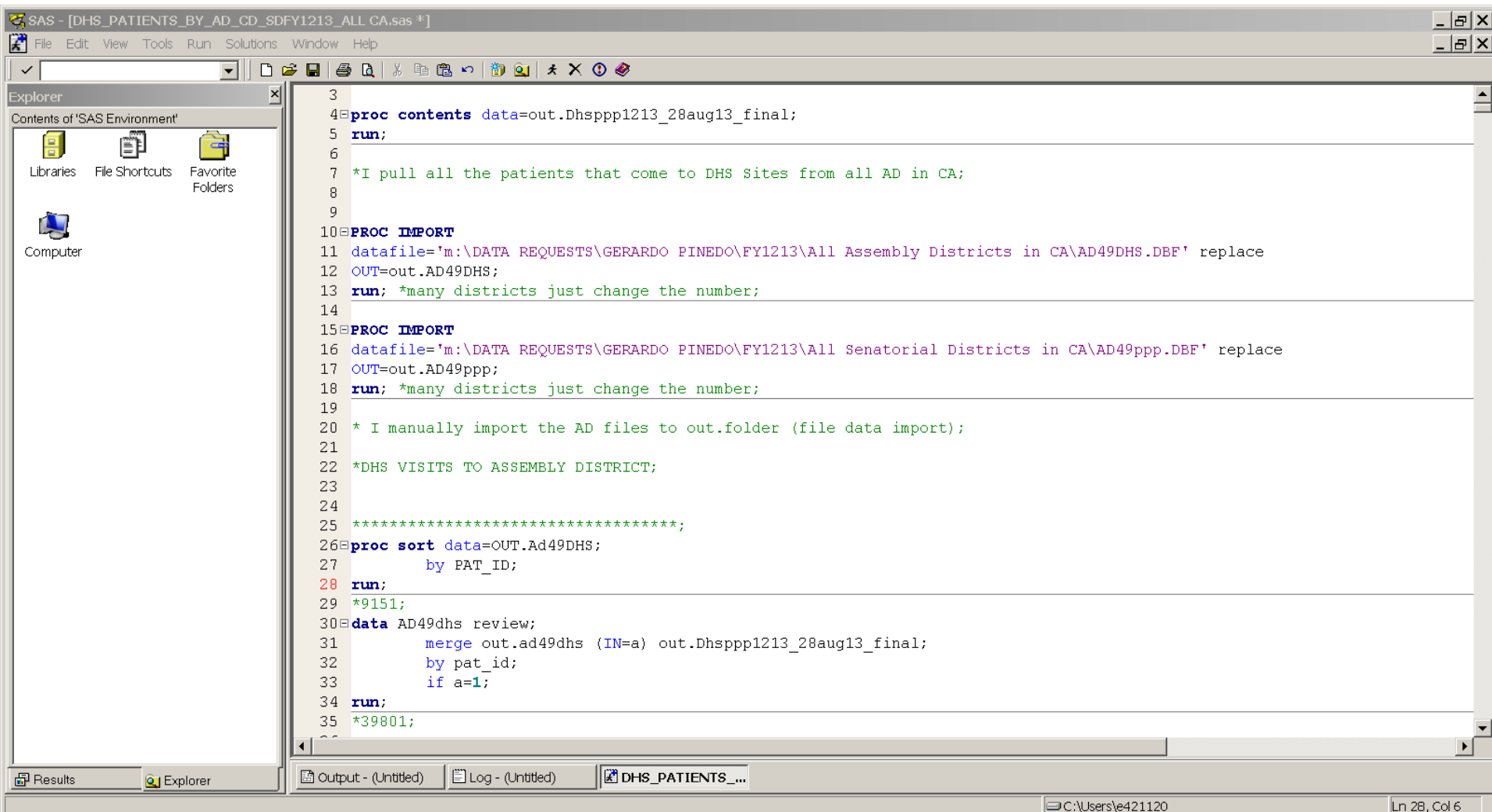




# DHS Patient Visits from a specific CA Assembly District.

DHS Patients FY 12/13 from AD 49

Patients (n=9,151) Visits (n=39,801)



SAS - [DHS\_PATIENTS\_BY\_AD\_CD\_SDFY1213\_ALL CA.sas \*]

File Edit View Tools Run Solutions Window Help

Explorer  
Contents of 'SAS Environment'

Libraries File Shortcuts Favorite Folders  
Computer

```
3
4 proc contents data=out.Dhsppp1213_28aug13_final;
5 run;
6
7 *I pull all the patients that come to DHS Sites from all AD in CA;
8
9
10 PROC IMPORT
11 datafile='m:\DATA REQUESTS\GERARDO PINEDO\FY1213\All Assembly Districts in CA\AD49DHS.DBF' replace
12 OUT=out.AD49DHS;
13 run; *many districts just change the number;
14
15 PROC IMPORT
16 datafile='m:\DATA REQUESTS\GERARDO PINEDO\FY1213\All Senatorial Districts in CA\AD49ppp.DBF' replace
17 OUT=out.AD49ppp;
18 run; *many districts just change the number;
19
20 * I manually import the AD files to out.folder (file data import);
21
22 *DHS VISITS TO ASSEMBLY DISTRICT;
23
24
25 *****;
26 proc sort data=OUT.Ad49DHS;
27     by PAT_ID;
28 run;
29 *9151;
30 data AD49dhs review;
31     merge out.ad49dhs (IN=a) out.Dhsppp1213_28aug13_final;
32     by pat_id;
33     if a=1;
34 run;
35 *39801;
```

Results Explorer Output - (Untitled) Log - (Untitled) DHS\_PATIENTS\_...

C:\Users\ea421120 Ln 28, Col 6

# Conclusion

GIS has helped us provide better services to our patients and the community in general.

